

Client's ref.:A91322  
File:0533-9533US/final

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**What is claimed is:**

1           1.    A mobile phone comprising:  
2           a body;  
3           an engaging member, moveably disposed on the body,  
4           including a first rib having a first inclined  
5           surface; and  
6           a battery, detachably disposed on the body,  
7           including a first concave portion corresponding  
8           to the first rib, wherein the first rib is  
9           located in the first concave portion, and the  
10          battery is lifted by the first inclined surface  
11          so as to be separated from the body.

1           2.    The mobile phone as claimed in claim 1, wherein  
2           the engaging member further includes a second rib, the  
3           battery further includes a second concave portion  
4           corresponding to the second rib, and the second rib is  
5           located in the second concave portion.

1           3.    The mobile phone as claimed in claim 2, wherein  
2           the engaging member further includes a first surface and  
3           a second surface, a normal vector of the first surface is  
4           perpendicular to a moving direction of the engaging  
5           member, the first rib is formed on the first surface, a  
6           normal vector of the second surface is parallel with the  
7           moving direction of the engaging member, and the second  
8           rib is formed on the second surface.

1           4.    The mobile phone as claimed in claim 3, wherein  
2           the second rib includes a second inclined surface, a

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3 first angle is formed between the first inclined surface  
4 and the normal vector of the second surface, a second  
5 angle is formed between the second inclined surface and  
6 the normal vector of the second surface, and the first  
7 angle is smaller than the second angle.

1 5. The mobile phone as claimed in claim 3, wherein  
2 the engaging member further includes a third surface, and  
3 a normal vector of the third surface is perpendicular to  
4 the moving direction of the engaging member.

1 6. The mobile phone as claimed in claim 5, wherein  
2 the second surface connects the first surface and the  
3 third surface.

1 7. The mobile phone as claimed in claim 5, wherein  
2 the first surface and the second surface are covered by  
3 the battery, and the third surface is exposed by the  
4 body.

1 8. The mobile phone as claimed in claim 1, wherein  
2 the body includes a slot, and the battery includes a  
3 protrusion corresponding to the slot.

1 9. The mobile phone as claimed in claim 8, wherein  
2 the protrusion and the second concave portion are formed  
3 on opposite sides of the battery.

1 10. A device for fixing a battery of a mobile  
2 phone, wherein the mobile phone includes a body and a  
3 battery, the battery includes a concave portion, and the  
4 device includes:

5 a main part moveably disposed on the body; and

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6           a first rib, integrally formed on the main part,  
7           including a first inclined surface, wherein the  
8           first rib is located in the concave portion,  
9           and the battery is lifted by the first inclined  
10          surface so as to be separated from the body.

1           11. The device as claimed in claim 10, further  
2          comprising:

3           a second rib integrally formed on the main part.

1           12. The device as claimed in claim 11, wherein the  
2          main part further includes a first surface and a second  
3          surface, a normal vector of the first surface is  
4          perpendicular to a moving direction of the main part, the  
5          first rib is formed on the first surface, a normal vector  
6          of the second surface is parallel with the moving  
7          direction of the main part, and the second rib is formed  
8          on the second surface.

1           13. The device as claimed in claim 12, wherein the  
2          second rib includes a second inclined surface, a first  
3          angle is formed between the first inclined surface and  
4          the normal vector of the second surface, a second angle  
5          is formed between the second inclined surface and the  
6          normal vector of the second surface, and the first angle  
7          is smaller than the second angle.

1           14. The device as claimed in claim 12, wherein the  
2          main part further includes a third surface, and a normal  
3          vector of the third surface is perpendicular to the  
4          moving direction of the main part.

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1           15. The device as claimed in claim 14, wherein the  
2           second surface connects the first surface and the third  
3           surface.

1           16. The device as claimed in claim 14, wherein the  
2           first surface and the second surface are covered by the  
3           battery, and the third surface is exposed by the body.